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CENTRAL INTELLIGENCE AGENCY

REPORT

INFORMATION REPORT

CD NO.

25X1

COUNTRY USSR (Armenian SSR)

DATE DISTR. 30 Jan. 1950

SUBJECT Hydroelectric Power Plant in Sevan

NO. OF PAGES 2

PLACE ACQUIRED 25X1NO. OF ENCLS. 3
(LISTED BELOW)DATE OF INFO. 25X1

SUPPLEMENT TO REPORT NO. 25X1

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1. For arrangement of turbines and stream flow of turbine water, see Annexes 1 and 2.
2. For layout of transformer station on hill, see Annex 3.
3. Capacity of each turbine; 21,200 kw.

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 Comment:

b. All the data on this underground power plant confirmed previous information.

Annex 3 contains detailed data on the transformer station which, according to a previous report also, is located on the slope of a hill.

Legend to Annex 1

- 1 Lake Sevan
- 2 Concrete base with orifices 36 feet square
- 2a) Orifices
- 2b)
- 2c Screen
- 2d) Motors operating orifices and screen
- 2e)
- 2f Place from which motors are operated
- 3 Access to orifices
- 4 Underground supply pipes; angle of descent 45°, length about 300 feet; the pipes terminate at a depth of about 330 feet
- 5 Gates regulating supply of water to the turbines
- 6 Turbines 1 and 2

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- 2 -

- 7 Locks regulating the back flow of water to the turbines used in case of repairs
 - 8 "Jansons" in the diversion chamber
 - 9 Spherical valve in diversion chamber
 - 10 Lift
 - 11 Staircase hall
 - 12 Lift
 - 13 Control cables
 - 14 Four cables each controlling turbines 1 and 2
 - 15 Shaft
 - 16 Funnel-shaped vault
 - 17 Discharge tunnel
- U Diversion chamber, takes up one third of the turbine house and serves to divert the flow of water around the turbines in case one or both of them should break down. The chamber is separated from the turbine house by a partition wall with an iron door. The entire turbine house, including diversion chamber, is 120x36x120 feet.
- A Annex for valve control station

Legend to Annex 2

- 1 Lift
- 2 Rails for traveling crane
- 3 Crane
- 4 Hoisting shaft
- 5 40-ton crane
- 6 Shaft, not yet brick-lined
- 7 Air mixing chamber
- 8 Service station for air mixing chamber
- 9 Exciter
- 10 Generator
- 11 Axle of turbine and generator
- 12 "Jansons"
- 13 Spherical valves
- 14 Turbines
- 15 Partition wall between turbine house and diversion chamber

Legend to Annex 3Above-ground installations

- 1 Transformer workshop
- 2 through 10 Transformers
- 11 Cable ducts
- 12 Open air transformer, 11 kv
- 13 Open air transformer, 35 kv, under construction
- 14 Switching station in the basement of an administration building still to be built
- 15 Two power transmission line trellis masts
- 16 through 18 Graded terraces

Underground installations

- U Diversion chamber
- T Turbine house
- P Lift
- F Hoisting shaft.

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